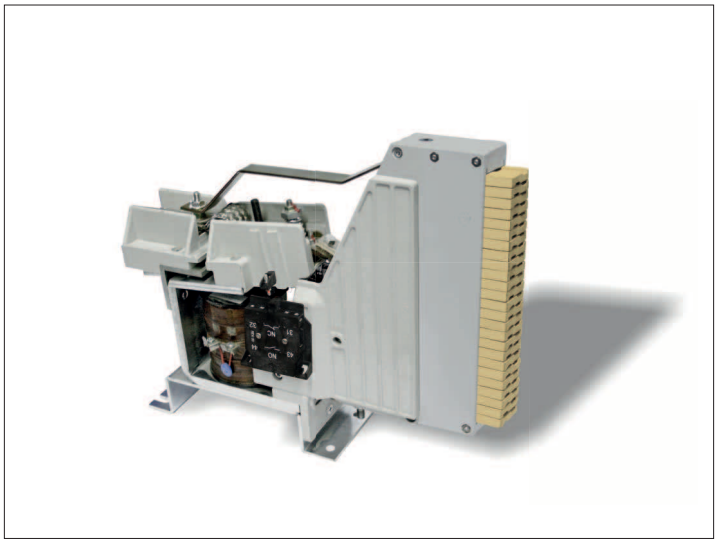
Standard Family Code
LTHS06501*A02

Mounting Position	Horizontal - Vertical[1]
Control Voltage Rating [Vdc]	24 - 36 - 48 - 72 - 110[1]
Auxiliary Contact Blocks	2 x (1 NO + 1 NC)
Block Type	SL
Arc chute Material	Polyester Resin - Ceramic[1]
Main Contacts tips Material	S6
Arcing Contacts tips Material	-
Electric Diagram	-
Layout Drawing	D48537



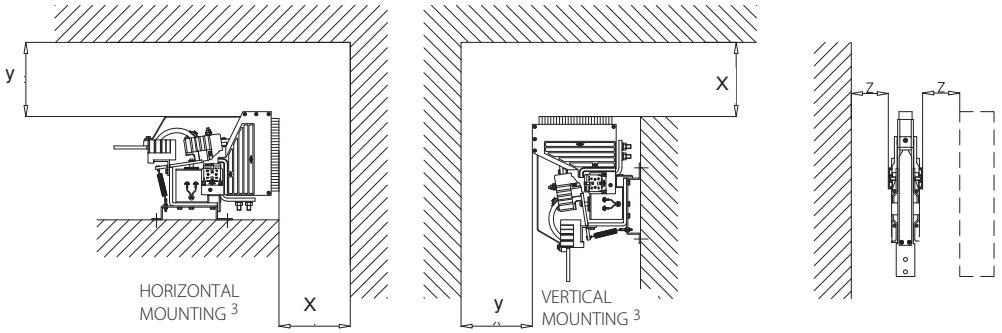
Description
Contactor with single interruption in air, electromagnetic control by full power coil. Single state functioning.
Reference Standard IEC 60077, IEC 61992 and IEC 60947.

Insulation Characteristics	
Rated Operational Voltage [Vac / Vdc]	900 / 1800[1]
Max Operational Voltage [Vac / Vdc]	2000
Rated Insulation Voltage [V]	2000
Rated impulse voltage [kV]	30
Rated Power Frequency Withstand Voltage (50Hz; 60")	
Between HV to LV circuit + Earth [V]	6000
Between open contacts [V]	4700
Between each pole (if more than 1) [V]	6000
Between LV circuit to Earth [V]	1500
Minimum clearance distance Between open contacts [mm]	16
Minimum clarence distance between power circuit to earth [mm]	30
Minimum creapage distance	80
Compartive Tracking Index (CTI) (IEC 60112) [V]	600

Electrical Characteristics		
Conventional Free Air Thermal Current [A] at 40°C[2]	700	
Conventional Free Air Thermal Current [A] at 75°C[2]	650	
DC-Rated Operational Current (τ=15ms) [A]	Polyester Resin arc chute	Ceramic arc chute
1800V	500	600
900V	1080	1200
DC-Maximum Breaking Capacity (τ=5ms) [A]		
1800V	625	800
900V	1250	2000
AC-Maximum Breaking Capacity (cosϕ=0,8; 50Hz) [A]		
1800V	830	1600
900V	1650	3200
Component Category / Operational Frequency Class	A2 / C3	
Short Circuit Withstand Capacity for 5ms [kA]	12	
Critical Current Range [A]	< 50 (U > 1500Vdc)	
Fault Making Capacity [kA]	7.2	
Blow Out Circuit Type	Indirect coil	

Minimum clearances [mm] from:				
Rated Operational Voltage		X	Y	Z
900V	Metal Parts	100	50	30
	Plastic Parts	50	30	20

Minimum clearances [mm] from:				
Rated Operational Voltage		X	Y	Z
1800V	Metal Parts	120	50	40
	Plastic Parts	50	30	20

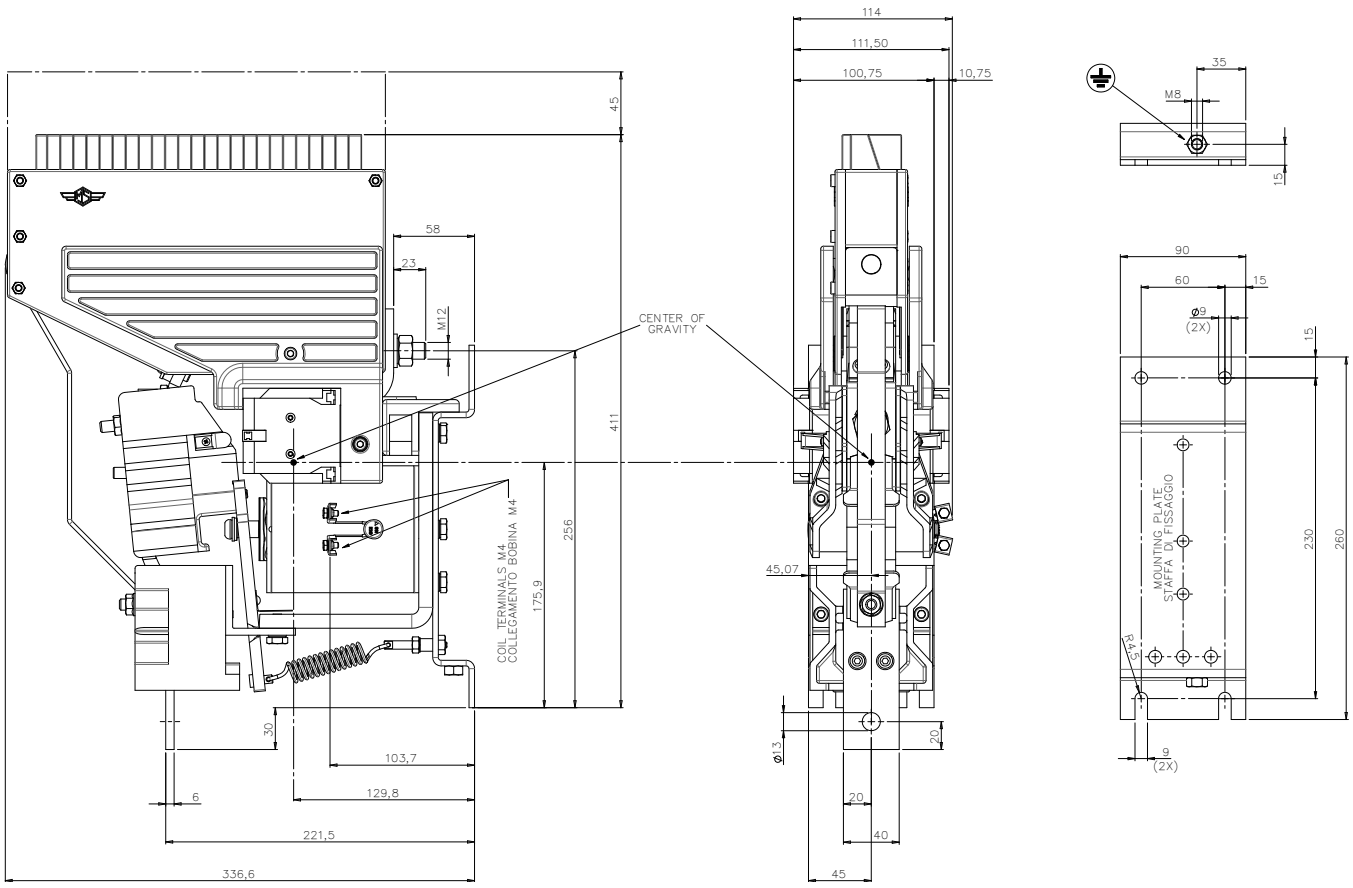


Mechanical Characteristics	
Mechanical Endurance (cycles)	$2x10^6$
Shock and Vibrations (IEC61373)	Cat. 1 - Class B
Weight [kg]	14

Control Circuit	
Control Voltage Range	$0.7U_c \div 1.25U_c$
Power Consumption (U_c and T = 20°C) at Pick Up - when Holding [W]	50-50
Mechanical Operation Time (U_c and T = 20°C) when Closing - Opening [ms]	210 - 40
Time Constant (L/R) at Pick Up - when Holding [ms]	170 - 190
Electrical Connections	Fast-On 6.35x0.8mm

Auxiliary Contacts	
Rated Operational Voltage [V_{ac} / V_{dc}]	250
Conventional Free Air Thermal Current [A] at 40° C	10
Tips material	Silver Alloy (Optional: Golden Plated)
Minimum Let-Through Current at 24/72/110V_{dc} [mA][4]	20(10)/15(7.5)/10(5)
Electrical Connections	Fast-On 6.35x0.8mm

Environmental Conditions	
Stock Temperature Range	-50°C ÷ +85°C
Operational Temperature Range	Tx (-40°C ÷ +75°C)[5]
Pollution Degree - Overvoltage Category (EN 50124-1)	PD3 - OV3
Max Altitude without Performance Derating [m]	2000



Notes:

1. To be specified in order phase
2. Device cabled according IEC 60947
3. Other mounting positions not allowed, reduced distances should be approved by MS.
4. Reference standard IEC 60947-5-4. Tested in a DRY and CLEAN condition with an LR load. For different working condiotions, please contact MS.
5. According to IEC50125-1

KNORR-BREMSE

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